

We Claims:

5 Subt a²

Subt B₆

10

15

20

25

30

~~1. A composition comprising a bead conjugated to a solid support and further conjugated to a nucleic acid.~~

~~2. A composition of claim 1, wherein the bead is made from a material selected from the group consisting of: silica gel, glass, magnet, Wang resin, Merrifield resin, metal, plastic, cellulose, Sephadex, and Sepharose.~~

3. A composition of claim 1, wherein the bead is swellable.

4. A composition of claim 1, wherein the bead is nonswellable.

5. A composition of claim 1, wherein the bead is in the range of 1 to 100µm in diameter.

~~6. A composition of claim 1, wherein the solid support is selected from the group consisting of: beads, capillaries, plates, membranes, wafers, combs, pins, wafers, wafers with arrays of pits and nanoliter wells.~~

~~6.~~
7. A composition of claim 1, wherein the nucleic acid is DNA.

~~7.~~
8. A composition of claim 1, wherein the nucleic acid is RNA.

Subt a³

~~9. A process of making a bead conjugated to a solid support and further conjugated to a nucleic acid, comprising the steps of conjugating a bead to a nucleic acid; and conjugating a bead to a solid support.~~

~~9~~ 10. A process of claim ~~8~~ 9, wherein the bead is functionalized.

~~10~~ 11. A process of claim ~~9~~ 10, wherein the bead is functionalized with carboxy functional groups.

5

~~11~~ 12. A process of claim ~~10~~ 9, wherein the bead is functionalized with amino functional groups.

10

~~12~~ 13. A process of claim ~~10~~ 9, wherein the bead is conjugated to the nucleic acid prior to conjugation of the bead to the solid support.

~~13~~ 14. A process of claim ~~10~~ 9, wherein the bead is conjugated to the nucleic acid after the bead is conjugated to the solid support.

add
a

08933292, 091997

22